Libby Amphibole RfC Calculation

Bob Benson to: brattin, Chris weis, Wendy OBrien, Helen Dawson 11/07/2008 10:45 AM

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After some dialog with Bill and a previous question from Chris, I have another version of the calculation of the Point of Departure in Appendix B. The issue is the adjustment from the LEC05 or BMDL05 to continuous exposure (24 hours/day, 365 days/year). Recall that the UC exposure reconsstruction assumed that each individual was in the facility for his work shift 7 days/week for 365.25 days/year. Somehow the calculated value from the UC exposure reconstruction has to be adjusted for the time not in the facility. [We are ignoring the issue of taking Libby Amphibole home in vehicles and clothes for the present time.] In the previous version I had adjusted the UC values by 5/7 to get to a 5 day work schedule and then did the correction using the geometric mean of the 3 most probably work shedules to adjust to continuous exposure. Bill and Chris questioned the 5/7.

I had attached an alternative calculation (still using geometric mean) but using a step wise calculation to 365 days/year and to 24 hours/day. The changes are in the section called "Calculation of the POD from the..." on pages 5 and 6 of the attached file. Please review and let me know if you agree with this version or the original. The new POD is higher and thus the RfC would be higher.

APPENDIX B Revised 2.doc